

Name: _____

ASM Tuition Academy
USING A CALCULATOR

Instructions:

- Use **black** ink or ball-point pen.
- Answer all the questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all you're working out**.

Information:

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

Q1. Find $\sqrt{1.44}$

(Total for question 1 is 1 mark)

Q2. Find 1.35^2

(Total for question 2 is 1 mark)

Q3. Find $\sqrt{2.25 \times 1.69}$

(Total for question 3 is 1 mark)

Q4. Find $1.2^2 + 1.5^2$

(Total for question 4 is 1 mark)

Q5. Work out $(3.25 - 0.35)^2 - 4.125$

Write down all the figures on your calculator display.

(Total for question 5 is 2 marks)

Q6. Work out $\frac{3.25 + 2.7^2}{2.15}$

Write down all the figures on your calculator display.

(Total for question 6 is 2 marks)

Q7. Work out $\frac{25.6 + 1.8^3}{6.4}$

Write down all the figures on your calculator display.

(Total for question 7 is 2 marks)

Q8. Use your calculator to work out $\frac{\sqrt{13.24-5.08}}{2.85^2}$

(a) Write down all the figures on your calculator display.

(2)

(b) Write your answer to part (a) correct to 2 decimal places.

(1)

(Total for question 8 is 3 marks)

Q9. Work out $\frac{24.9 - 3.95}{5.15 + 2.12}$

Write down all the figures on your calculator display.

(Total for question 9 is 2 marks)

Q10.

(a) Find the value of $\sqrt{31.2^2 \times 11.8^2}$

(1)

(b) Find the value of $\sqrt{5.24 + 10.35} - 0.95$

(2)

(Total for question 10 is 3 mark)

Q11. Work out $\sqrt{13^2 + 14^2 - 56 \cos(75^\circ)}$

Write down all the figures on your calculator display.

(Total for question 11 is 2 marks)

Q12. Use your calculator to work out $\frac{\sin 20^\circ + \cos 35^\circ}{\cos 20^\circ - \sin 35^\circ}$

(a) Write down all the figures on your calculator display.

(2)

(b) Write your answer to part (a) correct to 2 decimal places.

(1)

(Total for question 12 is 3 marks)

Q13. Using a calculator, find out value of $\sqrt{\frac{\tan 80^\circ + 1}{\tan 80^\circ - 1}}$

(a) Write down all the figures that are shown your calculator display.

(2)

(b) Write your answer to part (a) correct to 2 significant figures.

(1)

(Total for question 13 is 3 marks)

Q14. Use your calculator to work out $\frac{12.85 + \sqrt{9.8}}{6.15 * 4.2}$

(a) Write down all the figures on your calculator display.

(2)

(b) Write your answer to part (a) correct to 2 significant figures.

(1)

(Total for question 14 is 3 marks)